# PULP FORMATION FROM LIGNOCELLULOSE MATERIAL

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| **Classification:** | |
| **- international:** | D21C3/00 |
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Abstract of **JP11100783**

PROBLEM TO BE SOLVED: To constantly obtain pulp in high yield by stabilizing the reducible terminal groups of hemicellulose to efficiently solubilize lignin in the production of pulp through the polysulfide process.

SOLUTION: A tightly closed vessel in which chips are contained is evacuated and a PS digestion liquid containing a proper amount of a digestion aid is charged into the evacuated vessel thereby penetrating the PS digestion liquid into chips without resistance of air. Then, the vessel is held under the conditions of 80-140 deg.C for at least 10 minutes to stabilize hemicellulose in the first step. In the second step, a pressure of >=1,200 kpa is applied to improve the yield of hemicellulose and cellulose, lower the molecular weight of lignin and elute low-molecular-weight lignin by the action of 9, 10-anthraquinone that is a pulp- digesting aide and a catalyst for improving the pulp yield, even after the pulp digestion temp. reaches 140 deg.C and the PS digestion liquid becomes undetectable.

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**Family list**
2 family member for:
**JP11100783**
Derived from 1 application.

Back to JP1110

1 PULP FORMATION FROM LIGNOCELLULOSE MATERIAL
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